

## PATENT COOPERATION TREATY

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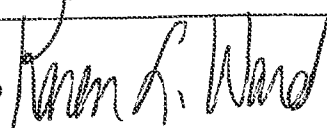
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 030036U1WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US04/13202	International filing date (day/month/year) 30 April 2004 (30.04.2004)	Priority date (day/month/year) 05 April 2004 (05.04.2004)
International Patent Classification (IPC) or national classification and IPC IPC(7): H04Q 7/20 and US Cl.: 455/456		
Applicant QUALCOMM INCORPORATION		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>6</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>    </u> sheets.</p> <p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand 13 September 2005 (13.09.2005)	Date of completion of this report 03 February 2006 (03.02.2006)	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer LESTER G KINCAID Telephone No. 571-272-7920 	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US04/13202

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed.
- ☒ the description:  
pages 1-12 \_\_\_\_\_ as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the claims:  
pages 13-17 \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the drawings:  
pages 1-4 \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☐ the sequence listing part of the description:  
pages NONE \_\_\_\_\_, as originally filed  
pages NONE \_\_\_\_\_, filed with the demand  
pages NONE \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. NONE
- ☒ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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## V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. STATEMENT

Novelty (N)

Claims NONE YES  
Claims 1-37 NO

Inventive Step (IS)

Claims NONE YES  
Claims 1-37 NO

Industrial Applicability (IA)

Claims 1-37 YES  
Claims NONE NO

### 2. CITATIONS AND EXPLANATIONS

Please See Continuation Sheet

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

### V. 2. Citations and Explanations:

Claims 1-37 lack novelty under PCT Article 33(2) as being anticipated by Stein et al. (US 2003/0008669 A1).

As to claim 1, a method comprising: receiving information in a wireless communication system (Fig. 1A), the information being indicative of signals of a set of base stations that a repeater can detect in the wireless communication system (col. 1, [0004]); and updating a neighbor list based on the received information (col. 5, [0049], and col. 9, [0108]).

As to claim 2, the method of claim 1, further comprising causing the updated neighbor list to be sent to one or more subscriber units of the wireless communication system. (col. 5, [0057]).

As to claim 3, the method of claim 1, wherein the information identifies a set of phase offsets detected from the signals of the set of base stations (col. 5, [0057]).

As to claim 4, the method of claim 1, wherein the information includes identification codes detected from the signals of the set of base stations (col. 5, [0051-0055]).

As to claim 5, the method of claim 1, wherein the wireless communication system comprises a code division multiple access (CDMA) system and the information identifies pseudo-random noise (PN) offsets (col. 4, [0046], and col. 7 [0073]).

As to claim 6, a method executed in a repeater of a wireless communication system, the method comprising: identifying signals associated with a set of base stations that the repeater can detect (col. 4, [0041]); and sending information indicative of the set of base stations to a specific base station that is repeated by the repeater (col. 4, [0042-0043]).

As to claim 7, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 8, the claim lack novelty for the same reason as set forth in claim 4.

As to claim 9, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 10, the method of claim 6, further comprising identifying energy levels of the signals and sending information indicative of the energy levels (col. 7, [0073]).

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## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

As to claim 11, the method of claim 6, further comprising identifying pilot symbols of the signals and sending information indicative of the identified pilot symbols (col. 10, [0110-0112]).

As to claim 12, a computer readable medium comprising computer readable instructions that when executed in a device of a wireless communication system (col. 12, [0135]), cause the device to update a neighbor list based on information received from a repeater in the wireless communication system, the information being indicative of signals of a set of base stations that the repeater can detect (col. 12, [0136-0144]).

As to claim 13, the computer readable medium of claim 12, further comprising instructions that when executed cause the device to send the updated neighbor list to one or more subscriber units of the wireless communication system (col. 12, [0144-0145]).

As to claim 14, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 15, the claim lack novelty for the same reason as set forth in claim 4.

As to claim 16, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 17, a computer readable medium comprising computer readable instructions that when executed in a repeater of a wireless communication system, cause the repeater to: identify signals associated with a set of base stations that the repeater can detect (col. 14, [0041]); and send information indicative of the set of base stations to a specific base station that is repeated by the repeater (col. 4, [0042-0043]).

As to claim 18, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 19, the claim lack novelty for the same reason as set forth in claim 4.

As to claim 20, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 21, a device of a wireless communication system, the device comprising: a receiver to receive information in the wireless communication system, the information being indicative of signals from a set of base stations that a repeater can detect in the wireless communication system (col. 5, [0057-0060]); and a control unit to update a neighbor list based on the received information (col. 5, [0049], and col. 9, [0108]).

As to claim 22, the claim lack novelty for the same reason as set forth in claim 13.

As to claim 23, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 24, the claim lack novelty for the same reason as set forth in claim 4.

As to claim 25, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 26, a repeater of a wireless communication system comprising a control unit to identify signals associated with a set of base stations that the repeater can detect and cause the repeater to send information indicative of the set of base stations to a specific base station that is repeated by the repeater (col. 5, [0057-0060]).

As to claim 27, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 28, the claim lack novelty for the same reason as set forth in claim 4.

As to claim 29, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 30, a wireless communication system comprising: a repeater that identifies signals associated with a set of base stations that the repeater can detect, and sends information indicative of the set of base stations that the repeater can detect (col. 5, [0057-0060]); and a device that receives the information and updates a neighbor list based on the information (col. 9, [0108]).

As to claim 31, the claim lack novelty for the same reason as set forth in claim 3.

As to claim 32, the claim lack novelty for the same reason as set forth in claim 4.

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

As to claim 33, the claim lack novelty for the same reason as set forth in claim 5.

As to claim 34, a device of a wireless communication system comprising: means for receiving information in the wireless communication system, the information being indicative of signals from a set of base stations that repeater can detect in the wireless communication system (col. 5, [0057-0060]); means for storing a neighbor list; and means for updating the neighbor list based on the received information (col. 4, [0041-0046]).

As to claim 35, the claim lack novelty for the same reason as set forth in claim 13.

As to claim 36, a repeater of a wireless communication system comprising: means for identifying signals associated with a set of base stations that the repeater can detect (col. 5, [0057-0060]); and means for sending information indicative of the set of base stations to a specific base station that gets repeated by the repeater (col. 4, [0042-0043]).

As to claim 37, the claim lack novelty for the same reason as set forth in claim 5.